

Application No. 10/789,490
Response to Office Action

Customer No. 01933

Listing of Claims:

Claim 1 (Canceled).

2. (Currently Amended) The battery pack according to
Claim ~~1~~ 8, wherein:

the discharge control switch includes a discharge control
field-effect transistor having a gate serving as a control
5 terminal, and

the charge control switch includes a charge control
field-effect transistor having a gate serving as a control
terminal.

Claim 3 (Canceled).

4. (Currently Amended) The battery pack according to
Claim ~~3~~ 2, wherein:

a gate voltage of the charge control field-effect transistor
is controlled to adjust a drain current thereof so that the one
5 charge control field-effect transistor performs both charge
control and overcharge control.

5. (Currently Amended) The battery pack according to
Claim ~~1~~ 8, ~~wherein: further comprising the charge protection~~
~~circuit includes~~ a temperature detection unit.

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6. (Original) The battery pack according to Claim 5,
wherein:

the temperature detection unit detects a temperature in
discharge control through the discharge control switch and
5 detects a temperature in the charge control through the charge
control switch.

7. (Original) The battery pack according to Claim 6,
wherein:

the temperature detection unit includes a thermistor.

8. (New) A battery pack with a charge control function,
said battery pack comprising:

an overdischarge control circuit for detecting an
overdischarge mode of a secondary battery and supplying an
5 overdischarge detection signal to a discharge control switch when
the overdischarge mode is detected;

an overcharge control circuit for detecting an overcharge
mode of the secondary battery and supplying overcharge detection
signal to a charge control switch when the overcharge mode is
10 detected; and

a charge control circuit for performing charge control of
the secondary battery by controlling the charge control switch.